

Durethan® BKV215H2.0

PA*—GF15

15% Glass Reinforced, Injection Molding, Heat Stabilized, Improved Impact

Print Date: 2024-08-24

| PROPERTIES | TYPICAL DATA | UNIT | TEST METHOD |
|--|-------------------|-------------------|-----------------|
| RHEOLOGICAL PROPERTIES | | | |
| | DRY / COND | | |
| Molding shrinkage (parallel) | 0.6 / * | % | ISO 294-4 |
| Molding shrinkage (normal) | 0.6 / * | % | ISO 294-4 |
| MECHANICAL PROPERTIES | | | |
| | DRY / COND | | |
| Tensile modulus | 4500 / 2300 | MPa | ISO 527-1/-2 |
| Stress at break | 85 / 55 | MPa | ISO 527-1/-2 |
| Strain at break | 4.5 / 15 | % | ISO 527-1/-2 |
| Flexural modulus | 4200 / 2300 | MPa | ISO 178 |
| Flexural strength | 135 / 75 | MPa | ISO 178 |
| Tensile modulus (200°C) | 917 | MPa | ISO 527-1/-2 |
| Charpy impact strength (+23°C) | 70 / 95 | kJ/m ² | ISO 179/1eU |
| Charpy impact strength (-30°C) | 80 / 80 | kJ/m ² | ISO 179/1eU |
| Charpy notched impact strength (+23°C) | 20 / 35 | kJ/m ² | ISO 179/1eA |
| Charpy notched impact strength (-30°C) | 10 / 12 | kJ/m ² | ISO 179/1eA |
| Izod notched impact strength (+23°C) | 20 / 35 | kJ/m ² | ISO 180/1A |
| THERMAL PROPERTIES | | | |
| | DRY / COND | | |
| Melting temperature (10°C/min) | 214 / * | °C | ISO 11357-1/-3 |
| Temp. of deflection under load (1.80 MPa) | 175 / * | °C | ISO 75-1/-2 |
| Temp. of deflection under load (0.45 MPa) | 205 / * | °C | ISO 75-1/-2 |
| Coeff. of linear therm. expansion (parallel) | 0.4 / * | E-4/°C | ISO 11359-1/-2 |
| Coeff. of linear therm. expansion (normal) | 1.7 / * | E-4/°C | ISO 11359-1/-2 |
| Burning Behav. at 1.5 mm nom. thickn. | HB / * | class | IEC 60695-11-10 |

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| <i>PROPERTIES</i> | <i>TYPICAL DATA</i> | <i>UNIT</i> | <i>TEST METHOD</i> |
|--|--------------------------|-------------------|----------------------|
| Thickness tested | 1.5 / * | mm | IEC 60695-11-10 |
| Burning Behav. at 0.75 mm nom. thickn. | HB / * | class | IEC 60695-11-10 |
| Thickness tested | 0.75 / * | mm | IEC 60695-11-10 |
| Oxygen index | 22 / * | % | ISO 4589-1/-2 |
| Glow Wire Flammability Index GWFI | 650 / - | °C | IEC 60695-2-12 |
| GWFI (Thickness (1) tested) | 2 / - | mm | IEC 60695-2-12 |
| <i>OTHER PROPERTIES</i> | <i>DRY / COND</i> | | |
| Water absorption | 7 / * | % | Sim. to ISO 62 |
| Humidity absorption | 2 / * | % | Sim. to ISO 62 |
| Density | 1170 / - | kg/m ³ | ISO 1183 |
| <i>PROCESSING RECOMMENDATIONS</i> | <i>VALUE</i> | | |
| Drying temperature dry air dryer | 80 | °C | |
| Drying time dry air dryer | 2-6 | h | |
| Residual moisture content | 0.03-0.12 | % | acc. to Karl Fischer |
| Melt temperature (Tmin – Tmax) | 260-290 | °C | |
| Mold temperature | 80-100 | °C | |

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